# Configuration Information

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**North Ridge Digital Cable**
305 W Stephenson Ave, Harrison, AR 72601

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# Configuration Information

The IntelliStar 1's Config.py is handled in various ways depending on the software's age.
Let's start with a 2004 config, as they are the simplest.

# Created on Wed Sep 22 16:57:57 EDT 2004
Note the top comment, it tells you exactly when the config was created for your unit.
After that, you can find a supporting function and then the first noticeable roadblock.
```import os
if not (os.path.exists("/var/db/pkg/twc_domestic_release-1.3_p2")):
  Log.info("config exiting - invalid version")
  abortMsg()
#```
If you do not have the exact release it wants, it kills setting any information. Generally, this is not an issue if you have the correct software version, but, if you insist on using this config (be prepared for breakage), you can simply remove this segment from the config and it will bypass that issue.

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```

# Maps

INFO ON “bfg” FILES: A bfg file uses the following info:

—----------—

4

2

/rsrc/maps/mercator.us.nw.tif

/rsrc/maps/mercator.us.ne.tif

/rsrc/maps/mercator.us.sw.tif

/rsrc/maps/mercator.us.se.tif

—----------—

Line 1: How many sections this full map has. (This is almost always 4, for the NW, NE, SW and SE image segments.)

Line 2: Assuming this is a grid, what kind of grid. (This is almost always 2, for a 2×2 grid.)

Lines 3-EOF: Paths to the map tif files.

It is theorized that “bfg” is an acronym for “Big Fucking Globe”.

Map data is set using the following example:

```
d = twc.Data(mapName='mercator.us.bfg',
        mapcutCoordinate=(20816,9580),
        mapcutSize=(1440,960),
        mapFinalSize=(720,480),
        mapMilesSize=(148,118),
        datacutType='radar.us',
        datacutCoordinate=(2151,836),
        datacutSize=(176,118),
        dataFinalSize=(720,480),
        dataOffset=(0,0),

vectors=['mercator.us.ushighways.vg','mercator.us.counties.vg','mercator.us.states.vg','mercator.us.coastlines.vg','mercator.us.statehighways.vg','mercator.us.otherroutes.vg','mercator.us.interstates.vg',],
)
wxdata.setMapData('Config.0.MetroDopplerRadar', d, 0)
```

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“d” is set with twc.Data with information involving the map cut its setting.
mapName: Sets the bfg file this cut uses.
mapcutCoordinate: The coordinate on the full map file after assembly in the bfg file.
mapFinalSize: Final Size of the map “cut”, most commonly, it is 720×480.
mapMilesSize: Sets the radius of this map “cut”.
dataCutType: Sets the type of cut and its purpose. Our example is for a Radar background.
TODO: Finish ripping into the maps and how they work
vectors: Vectors lists all the “vg (Vector Graphic)” files in effect for this cut. It can be anywhere from 1 to 7+ vg files in use on one cut.

# labeledTiffImage

```
labeledTiffImage = [
        (
          (('interstateSignOutline',0,2,1,),'Interstate-BoldCondensed',16,(212,212,212,255),0,0,(),),
         ( ( (101,281),'44',),
           ( (356,102),'40',),
           ( (214,170),'540',),
         ),
        ),
        (
          (('usHwySign',0,1,0,),'Interstate-BoldCondensed',18,(212,212,212,255),0,0,(),),
         ( ( (570,131),'67',),
         ),
        ),
        (
          (('interstateSign',0,1,0,),'Interstate-BoldCondensed',16,(212,212,212,255),0,0,(),),
         ( ( (214,170),'540',),
         ),
        ),
        (
          (('usHwySignOutline',0,2,1,),'Interstate-BoldCondensed',16,(212,212,212,255),0,0,(),),
         ( ( (570,131),'67',),
         ),
        ),
        (
          (('interstateSign',0,1,0,),'Interstate-BoldCondensed',18,(212,212,212,255),0,0,(),),
         ( ( (101,281),'44',),
           ( (356,102),'40',),
         ),
        ),
    ],
```

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labledTiffImage defines any Image files with built in labels.
This is most commonly used with interstate and highway images.
(('usHwySign',0,1,0,),'Interstate-BoldCondensed',18,(212,212,212,255),0,0,(),),
This defines a US Highway Sign, its label is Interstate-BoldCondensed, its size is 18, its RGBA Data is stored after the font size, (The color in hex is #D4D4D4, and is completely opaque. [255 Opacity])
The ending 0,0's purpose is currently unknown at this time.
After this segment, it sets the text used.

( ( (570,131),'67',),

At position 570,131 (these are displayed in real time on top of a map cut, so assume a 720×480 positioning reference point.), it places the number "67" (for US Highway 67) on top of the usHwySign, as the usHwySign does not have any form of text on it by default.

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# tiffImage

```
tiffImage = [
        (
         ('locatorDotOutline',0,2,1,),
        ( ( (354,235),),
          ( (225,213),),
          ( (181,344),),
          ( (437,87),),
          ( (196,122),),
          ( (333,359),),
         ),
        ),
        (
         ('locatorDot',0,1,0,),
        ( ( (354,235),),
          ( (225,213),),
          ( (181,344),),
          ( (437,87),),
          ( (196,122),),
          ( (333,359),),
         ),
        ),
    ],
```

tiffImage is a toolkit to set images on top of an existing cut.
This is most commonly used with locatorDots.

```
        (
         ('locatorDot',0,1,0,),
        ( ( (354,235),),
          ( (225,213),),
          ( (181,344),),
          ( (437,87),),
          ( (196,122),),
          ( (333,359),),
         ),
```

The image locatorDot (the three digit's purposes are unknown at this time.) is duplicated and placed at multiple places on the map cut.
Most likely, the second digit is a Z-Axis position, setting depth.

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# textString

```
textString = [
        (
          ('Interstate-Black',22,(212,212,212,205),1,-35,0,(20,20,20,128),2,0,0,),
         ( ( (374,238),'Harrison',),
           ( (103,216),'Fayetteville',),
           ( (201,347),'Joplin',),
           ( (406,108),'Conway',),
           ( (216,125),'Fort Smith',),
           ( (353,362),'Springfield',),
         ),
        ),
        (
          ('Interstate-Black',22,(212,212,212,255),1,-35,0,(),1,0,0,),
         ( ( (374,238),'Harrison',),
           ( (103,216),'Fayetteville',),
           ( (201,347),'Joplin',),
           ( (406,108),'Conway',),
           ( (216,125),'Fort Smith',),
           ( (353,362),'Springfield',),
         ),
        ),
    ],
```

textString defines the placement of a text string on a map cut.
The font is chosen, its size, raw RGBA colors, and a flag for a dropshadow, its offset, the shadows RGBA colors and its depth flag.

# setInterestList

wxdata.setInterestList('radar.us.cuts',['Config.0.MetroDopplerRadar','Config.0.RegionalDopplerRadar',])
And other usages...

setInterestList tells the IntelliStar 1 to become “Interested” in a specific set object. This can be previously set map cuts, or also different types of location codes.
setInterestList can vary based on era, with a common lockout procedure being in use being adding a third flag, the config’s revision.

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This third flag is a mandate for IntelliStar 1 Units past 2008, and will break setInterestList on units before 2008.
To upgrade a legacy Config's setInterestList:
Add a '1' as a middle argument.
For example:
A legacy setInterestList:
wxdata.setInterestList('mercator.us',['radar.us',])
A modern setInterestList:
wxdata.setInterestList('mercator.us','1',['radar.us',])
The middle argument needs to be present on ALL setInterestList commands, or the config gets rejected.

The following are the usages of setInterestList:
airportId: Requires IATA codes (3 letter airport codes, EG JFK or LAX)
coopId: Requires COOP Id codes (8 digit codes, TODO: Find source of COOP codes)
indexId: Requires an ICAO code (4 letter airport codes, EG KLIT)
obsStation: Requires ICAO codes (4 letter airport codes, 1 minimum, and if you want to make your config actually usable, set more than 1. These are MANDATORY for things like... weather data as the system calls for {obsStation}.{field} from the datastore/volatile data section, for example, KHRO.temp to get the temperature for Boone County Regional Airport.)
climId: Requires a Climate ID (These are Cooperative Station Identifiers from NOAA/NCEI, 6 digits.)
zone: Requires a NWS Forecast Zone (For more info, see weather.gov)
aq: Unknown at this time. Set to zz001 for now.
skiId: Requires an onthesnow Id for a zone. (For more information, see https://partner.docs.onthesnow.com/)
county: Requires an NWS County ID. (For more info, see weather.gov)

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Map Related Interest Options:
wxdata.setInterestList('radarSatellite.us.cuts',['Config.0.RadarSatelliteComposite',])
wxdata.setInterestList('radar.us.cuts',['Config.0.MetroDopplerRadar','Config.0.RegionalDopplerRadar',])
The .cuts settings resolve to set Map cuts for each section.
It is recommended to not touch Map Related Interest List options.

# Product Information

d = twc.Data()
d.obsStation = ['KHRO','KBPK',]
d.locName = ['Harrison','Mountain Home',]
d.elementDuration = 6
dsm.set('Config.0.Cc_CurrentConditions', d, 0, 1)
——————————————————————————— ———

d = twc.Data() Begins a block
d.obsStation = [‘PrimaryObs’,’FallbackObs’]
d.locName = [‘PrimaryName’,’FallbackName’]
d.elementDuration = 6 (keep this stock)
dsm.set(‘KeyName’, d (all the data we just set is in d), 0, 1)

Different Types of keys used for products:
——————————

minPageDuration: integer
maxPageDuration: integer
elementDuration: integer
climId: string

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latitude: float
longitude: float
coopId: list of strings
locName: list of strings
airportId: list of string(s)
obsStation: list of strings
activeVocalCue: bool
activeVocal: bool
schedule: list of tuples (month, day, hour, minute, second)
displayFlag: list of booleans
fcstHighOffset: int
fcstLowOffset: int
timeDuration: int
tempDuration: int
displayMessage: bool
aq: string
startDate: tuple (month,day)
endDate: tuple (month,day)

A Note about SENSOR:
It is a conditional setup.
With a sensor pack present, the system gets and sets data to SENSOR.
SENSOR has a different locName, usually different, in sentence case, or sometimes a shorter version of an existing locName.
SENSOR works the exact same as every other obsStation, even in formatting. KHRO.temp and SENSOR.temp work the same.

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# System Information Section

This is a fandubbed name for this section of dsm.set commands.

```
dsm.set('dmaCode','619', 0)
dsm.set('secondaryObsStation','KBPK', 0)
dsm.set('primaryClimoStation','033165', 0)
dsm.set('primaryIndexId','KHRO', 0)
dsm.set('ThemeOverride','standard', 0)
dsm.set('stateCode','AR', 0)
dsm.set('expRev','617493', 0)
dsm.set('primaryCoopId','72440066', 0)
dsm.set('PlaylistOverride','DefaultUS', 0)
dsm.set('wda','HRO', 0)
dsm.set('primaryCounty','ARC009', 0)
dsm.set('primaryObsStation','KHRO', 0)
dsm.set('primaryLat',36.22, 0)
dsm.set('hasTraffic',0, 0)
dsm.set('Clock','scmt.clock', 0)
dsm.set('primaryLon',-93.13139, 0)
dsm.set('primaryZone','ARZ003', 0)
dsm.set('climoRegion','4', 0)
dsm.set('SevereClock','scmt_severe.clock', 0)
dsm.set('onAirName','COX COMMUNICATIONS', 0)
dsm.set('headendId','022737', 0)
dsm.set('countryCode','US', 0)
dsm.set('cableSystemName','DOM - HARRISON - DOM', 0)
dsm.set('msoCode','01179', 0)
dsm.set('headendName','DOM - HARRISON - DOM', 0)
dsm.set('affiliateNumber','00915', 0)
dsm.set('zipCode','72602    ', 0)
dsm.set('bcConnectMethod','E', 0)
dsm.set('bcNetMask','255.255.255.128', 0)
dsm.set('irdSlave','0', 0)
dsm.set('starId','TWCD02040073', 0)
dsm.set('bcGateWay','24.248.219.129', 0)
dsm.set('bcIpAddress','24.248.219.130', 0)
```

It earns this name due to being where almost all the system information is located.

THE WEATHER CHANNEL weather.com

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Dive in:
dmaCode: Direct Market Area
secondaryObsStation: backup/fallback ICAO code
primaryClimoStation: Main Climatology Station ID
primaryIndexId: Main ICAO code for different types of Indexes
ThemeOverride: Unused, kept at standard.
stateCode: State Abbreviation
expRev: Internal Statistic, make up a 6 digit number here.
primaryCoopId: Primary Cooperative ID
PlaylistOverride: Force a playlist to be used, defaults to DefaultUS.
wda: IATA Code, abbreviation meaning is unknown at this time.
PrimaryCounty: NWS County ID
primaryObsStation: ICAO Code
primaryLat: Primary Loc Latitude
hasTraffic: If you are a lucky duck, traffic is activated or deactivated with a bool.
Clock: Your Product “clock”, defaults to scmt.clock. Mainly used in WXS but is set on Dom configs as well.
primaryLon: Primary Loc Longitude
primaryZone: Primary NWS Forecast Zone
climoRegion: Climatology Region Code, unknown where to find them.
SevereClock: Clock that gets swapped to in the event a weather alert of great enough severity is triggered. Once more, WXS exclusive, but set in Dom.
onAirName: Cable Provider Name
headendId: Cable Headend Id
countryCode: Country name abbreviation, should be US for normies.
cableSystemName: PERSONALITY - primaryLocName - PERSONALITY
msoCode: ID for Parent Company (I.E, providers owned by bigger providers to track the big cheese)
headendName: PERSONALITY - primaryLocName - PERSONALITY

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affiliateNumber: ID for affiliate
zipCode: This is a zip code for your primary location.
bcConnectMethod: D or E. Dialup or Ethernet to connect to backchannel.
bcNetMask: Subnet Mask for backchannel connection.
irdSlave: Toggles an Integrated Receiver Decoder as a “slave”
starId: System S/N. See Serial Number info Doc.
bcGateWay: Gateway for backchannel connection.
bcIpAddress: Ip for backchannel connection.

wxdata.setTimeZone('CST6CDT')
Sets your timezone to an IANA timezone config. See:
https://en.wikipedia.org/wiki/List_of_tz_database_time_zones#List

This concludes the config documentation.

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